



Product Data Sheet
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KEMFLOOR ANTISTATIC SL

Non-metallic, monolithic floor for fresh concrete surface hardener

Description

KEMFLOOR ANTISTATIC SL is a resin based antistatic floor system comprising a conductive under-coat topped with a 2-3 mm smooth finish epoxy floor surface with controlled electric properties. It is composed of modified epoxy resin with blended hardener and selected fillers. It has excellent adhesion to most building materials when PROSEALER SF is used as a solvent-free, low viscosity priming coat.

Where to use

KEMFLOOR ANTISTATIC SL is suitable for use in areas where a durable, cleaned, chemically resistance floor surface is required with the attendant risk of static building.

Typical areas of use are:

- Laboratories & Hospitals.
- Rooms containing electronic equipment.
- Chemical plants & explosive factories.

Advantages

- Negligible shrinkage.
- Excellent resistance to both chemical and mechanical attack.
- Eliminates static discharge from personnel and vehicles.

Properties

Density	1.6 gm/cm ³
Surface finish	Glossy or matt
Pot life at 23°C	1 hour
Cure life at 20°C	15-20 hours.
Compressive strength	60-70 N/mm ²
Flexural strength intension	30-34 N/mm ²
Modulus of elasticity	4000-5500 N/mm ²
Leakage resistance	<10 ⁵ ohms
Chemical Resistance	Excellent resistance

How to use

Surface Preparation

- All surfaces must be dry, clean and sound.
- All Contaminations, grease, oil and loose particles must be removed.
- Concrete surface must be free from laitance. Any approved mechanical method as sand blasting; scarifying can be used.
- Surface profile as (ICRI) standards.

Priming

- Experience has shown that cement mortar or concrete sub-floor may exhibit poor discharge capacity after epoxy topping has been applied. It is therefore advisable to apply either a conductive primer with a thickness of 0.2 mm using a graphite powder and silica sand as a filler to ensure that no gaps occur when the primer is applied by troweling and it imparts to the cured primer a leakage resistance.
- The freshly laid primer should be dusted with 0.5-0.8mm silica grains at the rate of 300 gm/m² to provide a good key for the topping.

Earthing

- It is also advisable to nail a thin wire screen or strips of copper 20 cm. long in the sub-floor and connected to a water pipe or any natural conductor.
- Two points suffice for a single room, one earth per 200 m² is also sufficient.
- The applicator must provide the possibility of connecting the flooring to an earth potential (see sketches). The earth concrete resistance of the earth connection must be <4 ohm.

Mixing

- Prokem epoxy floor topping comprises, the resin base, the hardener and the filler which are supplied pre-weighted in the correct proportions.
- The ease of mixing in cold water is aided by storing tins in warm atmosphere. It is essential that the aggregates are kept dry and free from frost.
- When required for application the hardener should first be poured into the can containing the base and drained well. The two components should be thoroughly mixed, preferably with a mechanical stirrer. E.g. an electric drill with stirrer attachment until a uniform clear liquid is obtained.
- The binder and the aggregate are thoroughly blended until the aggregate has been fully wetted out and a uniform consistency obtained, the small pack can conveniently be hand-mixed using board out the larger packs should be blended in a low speed mortar mixer.

Application

- the topping compound should be applied using a trowel, serrated edged trowel at a thickness of 2-3 mm
- the freshly laid topping should be treated immediately with a spiked roller shortly (10 minutes) after application
- this fresh rolling should be at right angles to the direction of laying
- about 20 minutes after rolling the product should be rolled again at right angle to the first roll

Cleaning

Tools can be cleaned, providing the adhering has not already set, using xylene.

Theoretical coverage

PROSEALERSF

0.2-0.3 kg/m²

KEMFLOOR CONDUCTIVE

0.3-0.4 kg /m² (D.F.200-250 microns)

KEMFLOOR ANTISTATIC SL

4-6 kg / m² at thickness of 2-3 mm

Packaging

5, 10 kg for three components (A & B & C)

Storage

At least one year in manufacturer's undamaged, sealed containers in dry conditions, out of direct sunlight

Health and Safety

This product is of low toxicity but normal precautions should be observed. Wear gloves, and if working overhead or spraying, wear goggles. Wash off any skin splashes with soap and water. Irrigating the eye with an eye bathing solution should treat eye contamination. Ensure adequate ventilation in confined spaces and use breathing aids. If ingested, drink milk or water and seek medical attention.

Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range.

For our customer's satisfaction, PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.